

wherein the luminous flux passing through a peripheral part of said first surface is reflected at a peripheral part of said second surface, is again reflected at a central part of said first surface and imaged on an optical axis of the lens element.

2. (Amended) An optical system as claimed in claim 1,
wherein said first surface and said second surface are both aspherical.

3. (Amended) An optical system as claimed in claim 1,
wherein said first surface is aspherical.

4. (Amended) An optical system as claimed in claim 1,
wherein said second surface is aspherical.

9. (Amended) An optical system comprising,
a lens element for focusing incident luminous flux at a predetermined position, said lens element having, from a long conjugate distance side, a first surface concave to the long conjugate distance side and a second surface strongly convex to a side opposite to the long conjugate distance side,
wherein the luminous flux passing through a peripheral part of said first surface is reflected at a peripheral part of said second surface, is again reflected at a central part of said first surface and imaged on an optical axis of the lens element.

10. (Amended) An optical system as claimed in claim 9,
wherein said first surface and said second surface are both aspherical.

11. (Amended) An optical system as claimed in claim 9,
wherein said first surface is aspherical.

12. (Amended) An optical system as claimed in claim 9,
wherein said second surface is aspherical.

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13. (Amended) An optical system comprising a lens element having a first
convex surface on the long conjugate distance side thereof with a reflective coating on a
central portion thereof and a light admitting area on said convex surface at the periphery of
said reflective coating, and a second convex surface on the opposite side thereof with a
reflective coating on a peripheral portion thereof and a light transmissive region at the
central portion thereof.

14. (Amended) The optical system of claim 13 wherein at least one of said first
and second surfaces has an aspherical shape.

Cancel claim 15-19.

Cancel claim 20 and replace it with the following new claims:

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--25. (New) An optical system comprising a lens element having a first concave surface on the long conjugate distance side thereof with a reflective coating on a central portion thereof and a light admitting area on said concave surface at the periphery of said reflective coating, and a second convex surface on the opposite side thereof with a reflective coating on a peripheral portion thereof and a light transmissive region at the central portion thereof.

26. (New) The optical system of claim 25 wherein said lens element is made of molded glass.--

21. (Amended) The optical system of claim 25 wherein at least one of said surfaces has an aspherical shape.

22. (Amended) The optical system of claim 21 wherein said first surface has an aspherical shape.

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23. (Amended) The optical system of claim 21 wherein said second surface has an aspherical shape.

24. (Amended) The optical system of claim 13 wherein said lens element is made of molded glass.